

Abstract

Provided is a bonding method in which two or more different members are bonded through a fitting structure by forming a bonding layer of an adhesive composition controlled in expansion coefficient, even if the clearance between wall surfaces of the different members in the fitting structure is not enough to pour a given amount of a hard solder therein, and a composite member made by the method is further provided.

The above method comprises a step of uniformly spreading a fine particle material over the surface of the dented portion of the member having the dented portion, then disposing a platy or powdery hard solder so as to cover at least a part of the layer comprising the fine particle and further disposing the member having the protruded portion, a step of uniformly spreading a fine particle material over the surface of the dented portion of the member having the dented portion and disposing the member having a protruded portion having one or a plurality of holes in which a hard solder is inserted so that the member closely contacts with the layer comprising the fine particle material, or a step of previously preparing the member having a protruded portion at the end of which is formed a layer comprising a hard solder and a fine particle material, disposing a hard solder on the surface of the dented portion of the member having the dented portion and disposing thereon the member having the protruded portion,

and a step of heating them to a given temperature under application of pressure to melt the hard solder and impregnating the fine particle material with this molten hard solder to form

The following table shows the results of the regression analysis for the dependent variable *Y* (in thousands of dollars) against the independent variable *X* (in thousands of dollars). The data is based on 10 observations.

<i>X</i> (thousands of dollars)	<i>Y</i> (thousands of dollars)
10	120
20	150
30	180
40	210
50	240
60	270
70	300
80	330
90	360
100	390

The regression line is given by the equation: $\hat{Y} = 3.8X + 10$. The coefficient of determination is $R^2 = 0.98$.